Cinnaminson NJ 08077

Phone: 856-303-2554

Thanks

Charlie



Charles Li, Ph.D. | Director of PCR and DNA Analysis Laboratory

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-303-2554 | Fax: 856-786-0262 | Toll Free: 800-220-3675 Lab Hours: Mon-Friday 7AM-10PM, Saturday 8AM-5PM, Sunday On-Call

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Thank you."

From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Tuesday, July 14, 2015 1:25 PM **To:** Li, Charles; Dobranic, Jason **Subject:** RE: test sample - great

Hi Charlie,

Good to hear everything is going well. What is your UPS overnight shipping address and phone number they can reach you at?

As to news from me, I have written a review article that summarizes all of the ERMI studies to date. It is in internal review right now but hope to submit for publication soon.

Thanks.

Steve

From: Li, Charles [mailto:cli@EMSL.com]
Sent: Tuesday, July 14, 2015 12:27 PM
To: Dobranic, Jason; Vesper, Stephen

Subject: RE: test sample?

Hi, Steve,

Yes, please send to me directly, no login in, no payment, as EPA quality concerns for ERMI runs. We have a better lab now, the lab has HEPA filter clean air, also PCR Workstations with Class100 clean air. We run positive and negative controls every months as our monthly QC. I also conducted ERMI training runs annually for lab analysts.

Our MSQPCR is fine. Any news from your side, Steve?

Regards

Charlie



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From: Dobranic, Jason

Sent: Tuesday, July 14, 2015 11:48 AM To: Vesper, Stephen; Li, Charles Subject: RE: test sample?

Sure, copying Dr. Li.

Sent from my Verizon 4G LTE Smartphone

---- Vesper, Stephen wrote ----

Hi Jason,

I have received some calls from people using the ERMI analysis and they tell me they have been sending the same sample to several licensed labs. They are telling me that they are getting significantly different ERMI reports from the different labs. There could be many reasons for this but it does concern me a great deal. I would like to send one sample, which we have tested here, to your lab and each of the other labs to make sure everyone if getting the same ERMI result.

Would it be possible for me to send Charlie Li (I assume he is still doing this analysis) a sample for ERMI analysis. This would be a big help to me in trying to clarify these reports.

Thanks.

Steve

From: Dobranic, Jason [mailto:JDobranic@EMSL.com]

Sent: Monday, May 11, 2015 5:38 PM

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Subject: RE: new article and editorial

Thanks Steve, I actually read this one a few weeks ago as I prepared a presentation. I gave an ERMI talk up in Maine a couple weeks ago. It was a good one. Good to see there is a lot of active research going on. The SERMI was another interesting one in Singapore.

Appreciate you forwarding these to make sure I have the latest info,

Jason

Jason Dobranic, Ph.D. | Vice President of Microbiology and Life Sciences

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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Tuesday, May 05, 2015 9:35 AM

To: Dobranic, Jason

Subject: new article and editorial

Hi Jason,

New article and editorial supporting ERMI.

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ERMI Analysis

Based on USA EPA SOP MERB-020, Revision No. 3, 7/11/02

EMSL Test Code: M180 CustomerID: 0

Lab Sample Number	Client Sample ID	Sample Location			
6115-EPA-VC1-3	VC1-3		Sample Size	EMSL Order#	
E	al Balatina Balati	EPA QC Dust	5 mg	6115-EPA-VC1-3	1000

Environmental Relative Moldiness Index (ERMI) by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR)

Lab Sample Number	C115 EDA 1/0/ 3
Client Sample ID	6115-EPA-VC1-3
Sample Location	VC1-3
Sample size	EPA QC Dust
EPA 36 Species Identification	5mg Dust
Group 1	Spores E./ mg dust
Aspergillus flavus	ND
Aspergillus fumigatus	Water the same of
Aspergillus niger	ND 5
Aspergillus ochraceus	CONTROL STREET
Aspergillus penicillioides	ND
Aspergillus restrictus	ND
Aspergillus sclerotiorum	ND
Aspergillus sydowii	ND
Aspergillus unguis	ND
Aspergillus versicolor	ND
	ND
Eurotium (A.) amstelodami	15
Aureobasidium pullulans	151
Chaetomium globosum	ND
Cladosporium sphaerospermum	68 -
Paecilomyces variotii	3
Penicillium brevicompactum	ND
Penicillium corylophilum	ND
Penicillium crustosum (group2)	ND
Penicillium purpurogenum	ND
Penicillium spinulosum	ND
Penicillium variabile	ND
Scopulariopsis brevicaulis	3
Scopulariopsis chartarum	ND
Stachybotrys chartarum	ND
Trichoderma viride	ND
Wallemia sebi	18
Group 1 Sum of the Logs	8.1

Lab Sample Number Client Sample ID	6115-EPA-VC1-3 VC1-3		
Sample Location	EPA QC Dust		
Sample size	5mg Dust		
EPA 36 Species Identification Group 2	Spores E./ mg dust		
Acremonium strictum	ND		
Alternaria alternata	8		
Aspergillus ustus	14		
Cladosporium cladosporioides I	ND		
Cladosporium cladosporioides II	ND ND		
Cladosporium herbarum	80		
Epicoccum nigrum	974		
Mucor and Rhizopus group	14		
Penicillium chrysogenum	ND		
Rhizopus stolonifer	1		
Group 2 Sum of the Logs	8.1		

Interpretation Key Group 2 Sum of the Logs

≤ 2 or ≥ 20 - - Less than or equal to 2 or Greather than or equal to 20



> 2 and < 20 - - Greater than 2 or Less than 20

ERMI Value: **ERMI Interpretation***

0.0 Level 3



Interpretation Key ERMI Value



Level 4: ERMI Value > 5, High Relative Moldiness. Further Investigation needed to determine the sources of this mold.



ERMI Value > -4 to 0 (Level 2) and > 0 to \leq 5 (Level 3), Moderate Relative Moldiness. Further investigation needed to determine if sources of mold exists.



Level 1: ERMI Value ≤ -4, Low Relative Moldiness.It is unlikely you have a mold problem.

Initial Report From:

7/21/2015 Amended Report From: Initial Report

Approved EMSL Signatory

Quanyi 'Charlie' Li, Ph.D.

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Rev 3.0 - 07/31/2013

Printed: 7/21/2015 12:35 PM

	8	

ERMI Analysis

Based on USA EPA SOP MERB-020, Revision No. 3, 7/11/02

EMSL Test Code: M180 CustomerID: 0

- ADMIR VANDOVINOS ENGL		LITA QC DUST	5 mg	EMSL-001 EPA OC VC1-1
6115-EPA-VC1-1	VC1-1	EPA QC Dust	Charles of the Control of the Contro	
CASE EDA MOS A		Sample Location	Sample Size	EMSL Order#
Lab Sample Number	Client Sample ID	Cample Leasting	12.000	The second section is a second section of the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section section in the second section in the section is a section section in the section section in the section section is a section s

Environmental Relative Moldiness Index (ERMI) by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR)

Lab Sample Number	C115 FDA VOL
Client Sample ID	6115-EPA-VC1-1
Sample Location	VC1-1
Sample size	EPA QC Dust
EPA 36 Species Identification	5mg Dust
Group 1	Spores E./ mg dust
Aspergillus flavus	
Aspergillus fumigatus	ND
	ND
Aspergillus niger	2
Aspergillus ochraceus	ND
Aspergillus penicillioides	ND
Aspergillus restrictus	ND
Aspergillus sclerotiorum	ND
Aspergillus sydowii	ND
Aspergillus unguis	ND
Aspergillus versicolor	ND
Eurotium (A.) amstelodami	26
Aureobasidium pullulans	96
Chaetomium globosum	ND
Cladosporium sphaerospermum	30
Paecilomyces variotii	ND
Penicillium brevicompactum	ND
Penicillium corylophilum	ND
Penicillium crustosum (group2)	ND
Penicillium purpurogenum	ND
Penicillium spinulosum	ND
Penicillium variabile	ND
Scopulariopsis brevicaulis	ND
Scopulariopsis chartarum	ND
Stachybotrys chartarum	ND
Trichoderma viride	3
Wallemia sebi	4
Group 1 Sum of the Logs	6.3

Lab Sample Number	6115-EPA-\	/C1-1	
Client Sample ID	VC1-1		
Sample Location	EPA QC D	ust	
Sample size	5mg Du	st	
EPA 36 Species Identification Group 2	Spores E./ mg dust		
Acremonium strictum	5		
Alternaria alternata	6		
Aspergillus ustus	10		
Cladosporium cladosporioides I	134		
Cladosporium cladosporioides II	2		
Cladosporium herbarum	72		
Epicoccum nigrum	729		
Mucor and Rhizopus group	4		
Penicillium chrysogenum	ND		
Rhizopus stolonifer	1		
Group 2 Sum of the Logs	10.2	V	

Interpretation Key Group 2 Sum of the Logs

 \leq 2 or \geq 20 -- Less than or equal to 2 or Greather than or equal to 20



> 2 and < 20 - - Greater than 2 or Less than 20

ERMI Value: ERMI Interpretation*

-3.9 Level 2



Page 1 of 1

Interpretation Key ERMI Value



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ERMI Value > -4 to 0 (Level 2) and > 0 to ≤ 5 (Level 3), Moderate
Relative Moldiness. Further investigation needed to determine if sources of
mold exists.



Level 1: ERMI Value ≤ -4, Low Relative Moldiness.It is unlikely you have a mold problem.

Initial Report From: 7/21/2015 Amended Report From: Initial Report

Approved EMSL Signatory Quanyi 'Charlie' Li, Ph.D.

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Experiment: VC1 ERMI LC480 Selected Filter: FAM (465-510)

7/20/2015

	VC1-1	VC1-2	VC1-3	ntc	pos
Name	Ср	Ср	Ср	Ср	Ср
Aflav			i i		22.03
Afumi			40		21.27
Aniger	39.26	37.35	37.92		28.44
Aochr			Annual Prices		26.8
Apeni					26.62
Arest					30.46
Asclr					24.83
Asydo					26.3
Aungu					23.23
Aversi					34.79
Eamst	34.73	38.33	35.61		26.95
Apull	33.36	32.68	32.7		19.83
Cglob			19		27.25
Cspha	34.01	32.46	32.77		26.27
Pvari		35.7	38.23		22.82
Pbrev	591		50.25		25.28
Pcory					24.24
Pcrust					25.59
Ppurp					21.43
Pspin					21.43
Pvarb					26.79
SCbrev			36.88		26.22
SCchr			40		21.44
Stac	38.92	40			19.39
viri	40		_		24.2
Vsebi	38.12	36.84	36.01		28.05
Astro	40				27.45
Aaltr	39.25	38.31	38.92		28.98
usts	36.8	35.79	36.25		30.65
Cclad1	32.14	31.06			24.9
clad2	38.1	37.37	40		21.64
herb	31.48	30.5	31.32		23.6
nigr	31.06	30.36	30.62		20.33
luc1	36.04	36.44	34.19		27.7
chry					29.8
stol	37.31	40	37.34		21.55
EO	22.03	23.44	24.74		21.33

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ERMI Analysis

Based on USA EPA SOP MERB-020, Revision No. 3, 7/11/02

EMSL Test Code: M180 CustomerID: 0

6115-EPA-VC1-2	VC1-2	Sample Location EPA QC Dust	Sample Size	EMSL Order#	
Environment	al Polotice Mark III	EFA QC Dust	5 mg	6115-EPA-VC1-2	

Environmental Relative Moldiness Index (ERMI) by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR)

Lab Sample Number	6115-EPA-VC1-2
Client Sample ID	VC1-2
Sample Location	EPA QC Dust
Sample size	
EPA 36 Species Identification	5mg Dust
Group 1	Spores E./ mg dust
Aspergillus flavus	ND
Aspergillus fumigatus	ND
Aspergillus niger	7
Aspergillus ochraceus	ND
Aspergillus penicillioides	ND
Aspergillus restrictus	Hardward Company of the Company
Aspergillus sclerotiorum	ND ND
Aspergillus sydowii	ND ND
Aspergillus unguis	ND ND
Aspergillus versicolor	ND ND
Eurotium (A.) amstelodami	2
Aureobasidium pullulans	153
Chaetomium globosum	ND
Cladosporium sphaerospermum	83
Paecilomyces variotii	18
Penicillium brevicompactum	ND
Penicillium corylophilum	ND
Penicillium crustosum (group2)	ND
Penicillium purpurogenum	ND
Penicillium spinulosum	ND
Penicillium variabile	ND
Scopulariopsis brevicaulis	ND
Scopulariopsis chartarum	ND
Stachybotrys chartarum	ND
Trichoderma viride	ND
Wallemia sebi	10
Group 1 Sum of the Logs	7.6

Lab Sample Number	6115-EPA-	VC1-2		
Client Sample ID	VC1-2			
Sample Location	EPA QC Dust			
Sample size	5mg Dust			
EPA 36 Species Identification Group 2		Spores E./ mg dust		
Acremonium strictum	ND			
Alternaria alternata	11			
Aspergillus ustus	19			
Cladosporium cladosporioides I	276			
Cladosporium cladosporioides II	3			
Cladosporium herbarum	136			
Epicoccum nigrum	1,157			
Mucor and Rhizopus group	3			
Penicillium chrysogenum	ND			
Rhizopus stolonifer	ND			
Group 2 Sum of the Logs	10.9			

Interpretation Key Group 2 Sum of the Logs

≤ 2 or ≥ 20 - - Less than or equal to 2 or Greather than or equal to 20



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ERMI Value: ERMI Interpretation*

-3.3 Level 2



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Initial Report From: 7/21/2015 Amended Report From: Initial Report

Approved EMSL Signatory

Quanyi 'Charlie' Li, Ph.D.

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	*		

Vesper, Stephen

From:

Vesper, Stephen

Sent:

Tuesday, July 21, 2015 12:48 PM

To:

Li, Charles

Cc:

Dobranic, Jason

Subject:

RE: ERMI QC RUns on VC1 dust sample -thanks

Hi Charlie,

Thanks for doing this analysis and your quick report. It will take me a little while to compare all of the labs but I will get

Steve

From: Li, Charles [mailto:cli@EMSL.com] Sent: Tuesday, July 21, 2015 12:45 PM

To: Vesper, Stephen Cc: Dobranic, Jason

Subject: ERMI QC RUns on VC1 dust sample

Hi, Steve,

Attached are the QC run reports. The ERMI report uses lab average Ct for Geo as 21.5.

Let me know if you want to see run data from LC480 and our SOP.

Please let me know your recommendations if there are quality concerns.

Thanks

Charlie



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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Thursday, July 16, 2015 2:58 PM To: Li, Charles; Dobranic, Jason

Cc: LaCerra, Charles Subject: excess dust

Hi Charlie,

No need to return any left-over dust. However, you may want to save it in case there are any problems.

Steve

From: Li, Charles [mailto:cli@EMSL.com]
Sent: Thursday, July 16, 2015 2:55 PM
To: Vesper, Stephen; Dobranic, Jason

Cc: LaCerra, Charles

Subject: RE: test sample - should be there Tomorrow

Hi, Steve,

Thanks, I will do. Do you want the dust to return to you?

Charlie, this package is not sample from client, no login, pass to me when you see it. Thanks.

Regards.

Charlie



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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Thursday, July 16, 2015 2:51 PM

To: Li, Charles; Dobranic, Jason

Cc: LaCerra, Charles

Subject: RE: test sample - should be there Tomorrow

Hi Charlie,

I am sending you a package today by UPS overnight. It contains one tube of dust labeled VC1.

I would appreciate it if you would perform at least two and hopefully three separate extractions and analyses; in other words, two or three separate extracts of 5 mg of dust each time and separate analysis. Therefore, I should get two and hopefully three separate ERMI reports. That way I can do some statistical analyses of the results.

Please let me know when the package arrives.

Thanks.

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From: Li, Charles [mailto:cli@EMSL.com]
Sent: Tuesday, July 14, 2015 1:31 PM
To: Vesper, Stephen; Dobranic, Jason

Cc: LaCerra, Charles

Subject: RE: test sample - great

HI, Steve,

Send to

Dr. Charlie Li 200 Rt130 N Cinnaminson NJ 08077

Phone: 856-303-2554

Thanks

Charlie



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Hi Charlie,

Good to hear everything is going well. What is your UPS overnight shipping address and phone number they can reach you at?

As to news from me, I have written a review article that summarizes all of the ERMI studies to date. It is in internal review right now but hope to submit for publication soon.

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Hi, Steve,

Yes, please send to me directly, no login in, no payment, as EPA quality concerns for ERMI runs. We have a better lab now, the lab has HEPA filter clean air, also PCR Workstations with Class100 clean air. We run positive and negative controls every months as our monthly QC. I also conducted ERMI training runs annually for lab analysts.

Our MSQPCR is fine. Any news from your side, Steve?

Regards

Charlie



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Sure, copying Dr. Li.

Sent from my Verizon 4G LTE Smartphone

---- Vesper, Stephen wrote ----

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Appreciate you forwarding these to make sure I have the latest info,

Jason

Jason Dobranic, Ph.D. | Vice President of Microbiology and Life Sciences

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Sent: Tuesday, May 05, 2015 9:35 AM

To: Dobranic, Jason

Subject: new article and editorial

Hi Jason,

New article and editorial supporting ERMI.

		*	

Vesper, Stephen

From:

Vesper, Stephen

Sent:

Wednesday, July 29, 2015 8:48 AM

To:

Villegas, Eric

Subject:

RE: commercial/academic lab EMSL

Hi Eric,

You might contact EMSL. However, they are not necessarily a food lab.

Steve

Jason Dobranic, Ph.D. | Vice President of Microbiology and Life Sciences

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From: Villegas, Eric

Sent: Wednesday, July 29, 2015 8:45 AM

To: Vesper, Stephen

Subject: commercial/academic lab that ID's fungi/bacteria in food (e.g. cured ham)

Steve,

Do you know of any labs locally or in other states, that has the capabilities to detect and ID (type) fungi/bacteria in food? A colleague of mine has a curing ham business and is interested in identifying the different types for "mold" that's growing on their ham during the curing process. My understanding is that they've been seeing some anomalous "bad crusting" on their ham during the curing process. So they wanted to ID it and determine mitigations steps to prevent it from occurring again.

Thanks, Eric

45	
•	

Vesper, Stephen

From: Vesper, Stephen

Sent: Wednesday, August 12, 2015 10:17 AM

To: Li, Charles
Cc: Dobranic, Jason

Subject: RE: ERMI VC1 dust sample comparison

Attachments: EMSL data.xlsx

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Send to

Dr. Charlie Li 200 Rt130 N Cinnaminson NJ 08077

Phone: 856-303-2554

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Our MSQPCR is fine. Any news from your side, Steve?

Regards

Charlie



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Moune	EMSL 1	EMSL 1	EMSL 1	EPA	EMSL
MOLDS	VC1	VC1	VC1	AVG	AVG
Aspergillus flavus	ND	ND	ND	1	
Aspergillus fumigatus	ND	ND	ND	1) (1 .7 0
Aspergillus niger	2	7	5	22	; 1 3 0
Aspergillus ochraceus	ND	ND	ND	1	5
Aspergillus penicillioides	ND	ND	ND	49	0
Aspergillus restrictus	ND	ND	ND	3	0
Aspergillus sclerotiorum	ND	ND	ND	1	0
Aspergillus sydowii	ND	ND	ND	11	0
Aspergillus unguis	ND	ND	ND		0
Aspergillus versicolor	ND	ND	ND	0	0
Aureobasidium pullulans	96	153	151	7	0
Chaetomium globosum	ND	ND	ND	70	133
Cladosporium sphaerospermum	30	83	68	9	0
Eurotium amstelodami	26	2	15	43	60
Paecilomyces variotii	ND	18	3	47	14
Penicillium brevicompactum	ND	ND	ND	8	7
Penicillium corylophilum	ND	ND	ND	1	0
Penicillium crustosum	ND	ND	ND	8	0
Penicillium purpurogenum	ND	ND		13	0
Penicillium spinulosum	ND	ND	ND	0	0
Penicillium variabile	ND	ND	ND	0	0
Scopulariopsis brevicaulis	ND	ND	ND	2	0
Scopulariopsis chartarum	ND	ND	3	1	1
Stachybotrys chartarum	ND		ND	2	0
Trichoderma viride	3	ND	ND	5	0
Wallemia sebi	4	ND	ND	1	1
Sum of the Logs (Group I):	6.3	10	18	30	11
Acremonium strictum	5	7.6	8.1	16.86	7.33
Alternaria alternata	6	ND	ND	0	2
Aspergillus ustus	10	11	8	77	8
Cladosporium cladosporioides 1		19	14	14	14
Cladosporium cladosporioides 2	134	276	ND	185	137
Cladosporium herbarum	2	3	ND	7	2
Epicoccum nigrum	72	136	80	500	96
Mucor amphibiorum	729	1157	974	400	953
Penicillium chrysogenum	4	3	14	3	7
Rhizopus stolonifer	ND	ND	ND	11	0
Sum of the Logs (Group II):	10.00	ND	1	3	1
ERMI (Group I - Group II):	10.20	10.9	8.1	13.14	9.73
and (Group 1 - Group II):	-3.90	-3.3	0	3.72	-2.40

Adjustment

about 50

about 10

Vesper, Stephen

From:

Li, Charles <cli@EMSL.com>

Sent:

Wednesday, August 12, 2015 2:49 PM

To: Cc:

Vesper, Stephen

Dobranic, Jason

Subject:

RE: ERMI VC1 dust sample comparison

Attachments:

removed.txt

Hi, Steve,

The differences between EPA data and EMSL data are significant. The comparisons did show that our ERMI qPCR is less sensitive than yours. I know that I might loss some sensitivity when applied automatic DNA extraction. I will look into this.

Steve, for manual DNA extraction from dust samples, do you use Roche HighPure DNA extraction kit? I will buy it to test on your VC1 dust sample, then improve my automatic DNA

Thanks for your suggestions.

Charlie



Charles Li, Ph.D. | Director of PCR and DNA Analysis Laboratory

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Monday, October 05, 2015 8:00 AM

To:

Li, Charles

Cc:

Dobranic, Jason

Subject:

Do not dilute extract

Hi Charlie.

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Monday, October 05, 2015 8:45 AM

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Cc:

Dobranic, Jason

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Attachments:

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Sent:

Monday, October 05, 2015 2:20 PM

To:

Dobranic, Jason; Vesper, Stephen

Subject:

RE: Do not dilute extract

Attachments:

removed.txt

Jason.

We already did run different amount of Steve's standard dust. We have a few more steps need

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Sent:

Thursday, October 08, 2015 12:32 PM

To:

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Subject:

Shoemaker

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From: Dobranic, Jason < JDobranic@EMSL.com> Sent: Thursday, October 08, 2015 12:47 PM To:

Vesper, Stephen Subject: RE: Shoemaker

Ok thanks. He seems to push work to Mycometrics so his motives concern me and obviously his website rant is not

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Li, Charles

Cc: Subject:

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I would like to send you another sample, if you are willing to consider analyzing it.

Thanks.

Steve

From: Li, Charles [mailto:cli@EMSL.com] Sent: Monday, November 02, 2015 9:45 AM To: Vesper, Stephen <vesper.stephen@epa.gov> Cc: Dobranic, Jason < JDobranic@EMSL.com>

Subject: RE: Do not dilute extract

Hi, Steve,

Thanks for help on our ERMI analysis. The attached is ERMI runs report using corrected protocol. All your suggestions were investigated and re-evaluated. As the dust sample size has been adjusted, the new lab geo average is derived from an average of Geo Ct values from multiple runs using VC-1 dust, then one standard deviation has been subtracted from the average Ct. I also replaced the MSQPCR probes and primers. A new SOP will be written with more stringent

Please let know your comments on our new ERMI runs. I am thinking that I may visit your lab in

In near future and get more training from you if you can arrange it.

We have many clients who use our lab for ERMI, many molds sensitive and Lyme disease persons. I have referred them to read EPA molds website, in particular, molds booklets. They are very happy to learn about molds and fix molds problems in their homes.

Regards

Charlie



Charles Li, Ph.D. | Director of PCR and DNA Analysis Laboratory

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Monday, October 05, 2015 8:00 AM

To: Li, Charles Cc: Dobranic, Jason

Subject: Do not dilute extract

Hi Charlie,

If you need to have extra DNA extract for sample analysis, please do two 5 mg dust extracts recovered in 200 ul each. These can then be combined to provide 400 ul. It is very important to carry out the extraction exactly as taught. Do not dilute the extract.

Thanks. Steve

From: Li, Charles [mailto:cli@EMSL.com] Sent: Thursday, October 01, 2015 8:40 AM

To: Vesper, Stephen

Subject: RE: GEO Spores -BioBall

Hi, Steve,

Thanks. As you may know, we have been using lab average GEO at 21.5 for our tests. I am reevaluating the GEO Spores.

Meanwhile, we may have to use more stringent QC on MSQPCR probes and primers. We run monthly QC for positive and negative controls for ERMI, although all probes and primers pass QC, however, we did use probes several years old. Now, I use IDT's probes, they had ZEN structure which can reduce background and increase specificity.

Another thing is that the DNA extracted from 5 mg dust is in 300 uL volume (not 200 uL, we need extra for checking and rerun etc.), so our DNA is more diluted. I am thinking to use 7.5 mg dust in order to get equivalent concentration. What do you think?

Thanks

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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

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To: Li, Charles

Subject: RE: GEO Spores -BioBall

Hi Charlie.

I don't know of any applicable Bioballs. Actually, if you make-up 1 x 10^8 spores per ml Geo, it really should not be a problem with accuracy. Don't use anything below 10^6/ml.

Steve

From: Li, Charles [mailto:cli@EMSL.com] Sent: Thursday, September 24, 2015 4:30 PM

To: Vesper, Stephen

Subject: GEO Spores -BioBall

Hi, Steve,

We are still working on it. It seems that the lab average GEO needs to be re-evaluated. Have you tried to make GEO spores into bioball? I know Rich and others had used BioBall with accurate cells buried into the beads as qPCR quantitation calibrators.

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From:

Vesper, Stephen

Sent:

Monday, November 02, 2015 3:05 PM

To:

Li, Charles

Cc:

Dobranic, Jason

Subject:

RE: another sample- ok

Hi Charlie.

Great. I will let you know before I send the sample. It might be a couple of weeks.

Thanks.

Steve

From: Li, Charles [mailto:cli@EMSL.com]
Sent: Monday, November 02, 2015 2:52 PM
To: Vesper, Stephen <vesper.stephen@epa.gov>
Cc: Dobranic, Jason <JDobranic@EMSL.com>

Subject: RE: another sample?

Hi, Steve,

Yes, please.

Send to me,

Dr. Charlie Li

DNA Analysis Lab

200 Rt130 N Cinnaminson, NJ 08077

Tel: 856-303-2554.

Charlie



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From: Vesper, Stephen [mailto:vesper.stephen@epa.gov]

Sent: Monday, November 02, 2015 2:49 PM

To: Li, Charles Cc: Dobranic, Jason Subject: another sample?

Hi Charlie,

I am really glad, this looks better.

I would like to send you another sample, if you are willing to consider analyzing it.

Thanks.

Steve

From: Li, Charles [mailto:cli@EMSL.com]
Sent: Monday, November 02, 2015 9:45 AM
To: Vesper, Stephen < vesper.stephen@epa.gov >
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From:

Vesper, Stephen

Sent:

Tuesday, December 01, 2015 11:00 AM

To:

Dobranic, Jason

Subject:

call

Hi Jason.

Sure, what is a good time for you?

Steve

From: Dobranic, Jason [mailto:JDobranic@EMSL.com]

Sent: Tuesday, December 01, 2015 10:05 AM To: Vesper, Stephen <vesper.stephen@epa.gov>

Subject: Update

Steve, do you have some time this afternoon or tomorrow to talk. Charlie sent me his list of corrective actions that he believes addresses your findings with the standard dust sample. Sometimes it even hard for me to understand Charlie so I wanted to make sure all the suggestions he has makes sense to you before we implement them in our SOP and report. Just let me know a good time to call, thanks. Jason

Jason Dobranic, Ph.D. | Vice President of Microbiology and Life Sciences

EMSL Analytical, Inc. | 8700 Jameel Rd Suite 190 | Houston, TX 77040 Phone: 713-686-3635 \ 866-318-3920 | Fax: 713-686-3645 | Toll Free: 800-220-3675

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From:

Vesper, Stephen

Sent:

Tuesday, December 01, 2015 11:16 AM

To:

Dobranic, Jason

Subject:

RE: call

Hi Jason,

1 pm central (2 pm my time) is fine. Do you want me to call you, if so what number? Or my number is 513-569-7367.

Steve

From: Dobranic, Jason [mailto:JDobranic@EMSL.com]

Sent: Tuesday, December 01, 2015 11:07 AM
To: Vesper, Stephen <vesper.stephen@epa.gov>

Subject: RE: call

Today at 1 PM central or 2 central work great for me.

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Phone: 713-686-3635 \ 866-318-3920 | Fax: 713-686-3645 | Toll Free: 800-220-3675

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From: Vesper, Stephen

Sent: Tuesday, December 01, 2015 3:53 PM

To: Dobranic, Jason Subject: RE: Homeowner

Hi Jason,

I don't know anything about this homeowner's communications. I also don't know about any EPA investigation. I think the main thing is to get the quality assurance implemented, as we discussed earlier.

Thanks.

Steve

From: Dobranic, Jason [mailto:JDobranic@EMSL.com]

Sent: Tuesday, December 01, 2015 3:27 PM
To: Vesper, Stephen <vesper.stephen@epa.gov>

Subject: Homeowner

Steve, on another matter, I received a call from a homeowner wanting a refund on her ERMI results. She says she spoke to someone at the EPA in Kansas City and that that person called "EPA headquarters" and was told EMSL is under investigation by the EPA. Not sure what is going on, are we being officially investigated and need to put a hold on our ERMI testing? I believe it has something to do with the Shoemaker blog,

Jason Dobranic, Ph.D. | Vice President of Microbiology and Life Sciences

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From:

Vesper, Stephen

Sent:

Wednesday, December 02, 2015 8:01 AM

To:

Dobranic, Jason

Subject:

Gianni Rossini

Hi Jason,

I helped Gianni Rossini (gianni202@gmail.com cell is 210-782-2803) get ERMI technology set-up at SWRI (Southwest Research Institute) in San Antonio, TX. He was analyzing National Children's Study dust samples by ERMI. I think he analyzed about 500 samples but the National Children's study was canceled and he lost his funding. I know he is looking for a position. He has a thorough grasp of the technology.

Good luck.

Steve

From: Dobranic, Jason [mailto:JDobranic@EMSL.com]

Sent: Tuesday, December 01, 2015 5:33 PM To: Vesper, Stephen <vesper.stephen@epa.gov>

Subject: Lab staff

Steve, if you know any post docs or other well qualified people please let me know. We would be looking to hire someone in our NJ lab.

Much appreciated,

Jason

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